FERDIAN IFKARSYAH

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EDUCATION

Bachelor of Computer Science　　　**Institut Teknologi Bandung, Indonesia**　　　**Aug 2017 – Jul 2021(Expected)**
- Relevant Coursework: Operating System, Computer Network, Distributed System, Database Management.
- Lab Assistant: KU1102 - Introduction to Information Technology (Sep 2019 - Dec 2019).

WORK EXPERIENCE

Software Developer, BE Intern　　　**Shopee Indonesia**　　　**May 2020 - Aug 2020**
- Fixed bug on attendance system where the csv parsing operation fails when multiple misformat happens.
- Increased redeem token query throughput by 2.6 times on Share & Win service using bulk-insertion method.
- Reduced attribute matching time from $O(n^2)$ to $O(n)$ on Share & Win by changing data structure to hash-table.
- Tech stacks: Golang, Beego, MySQL, MongoDB, Docker, Redis, Lua Script.

Software Developer, Part-Time　　　**ITB Artificial Intelligence Lab**　　　**February 2020 - May 2020**
- Developed ETL system for collecting training data to be consumed by Optical Character Recognition system.
- Reduced server's average CPU usage by 40% by leveraging customers' phones as temporary storage.
- Tech stacks: OpenCV, Android, Java, Python.

Back-End Developer, Intern　　　**CICIL Solusi Mitra Teknologi**　　　**June 2019 - Aug 2019**
- Reduced Cicil Jobs codebase dependency by refactoring the codebase to Clean Architecture.
- Implemented payment gates analytics handler using messaging queue backed with Redis.
- Tech stacks: Golang, Gin, Beego, Redis, PostgreSQL, Docker.

Software Developer, Intern　　　**Zenius Education**　　　**May 2018 - July 2018**
- Cut the business analytics process time by 10% by developing an automatic data cleaning pipeline.
- Created a photo-sharing website for a gathering event.
- Tech stacks: Clojure, Luminus, HTML, CSS, Javascript.

ACHIEVEMENT

- **[National] Participant, SEA Compfest 2020.** Selected as one of 20 participants from more than 600 applicants to study the agile software engineering, docker, microservice, docker, and devops.
- **[Regional] Finalist (Top 50), ACM-ICPC Asia Jakarta Regional 2019.** Advanced to finals through competition between more than 500 teams. Codes with C++ for competitive programming purposes.
- **[National] Finalist (Top 60), ACM-ICPC INC 2018.** An ICPC-style competitive programming competition.
- **[National] Finalist (Top 20), BNPCHS 2016.** Competitive programming competition for high school students.

SIDE PROJECT

- **Eevee (September 2020).** Marketplace app that connects customer and merchant. Built with microservice architecture, Go, React.js, Docker, and RabbitMQ. More: https://gitlab.com/sea-eevee/backend/gateway
- **Engima (November 2019).** Cinema movie ticket reservation application. Built with Node.js, Express.js, React.js, PHP, PostgreSQL, and deployed on AWS EC2. More: https://github.com/Ifkarsyah/engima-main
- **Engi's Farm (April 2019).** Built a Harvest Moon like game where a farmer needs to maintain its farm by raising livestock, clearing land, etc. Developed with Java GUI. More: https://github.com/Ifkarsyah/engis-farm

ORGANIZATIONAL EXPERIENCE

- **Arkalogica Problem Setter, HMIF Arkavidia (October 2019).** Collaborated with 5 other members to write problems set as part of a logic competition held by Himpunan Mahasiswa Informatika ITB.
- **Unit Lead, UNIX Project (November 2018).** Led a team of 4 members to conduct an "Introduction to Computer Science" session to high school students.
- **Class Finder Member, HMIF (August 2018).** Launched and promoted a Line bot account to help freshman students find their class. Acquired more than 3000 Line friends in less than a week.